FIG. 1
PRIOR ART

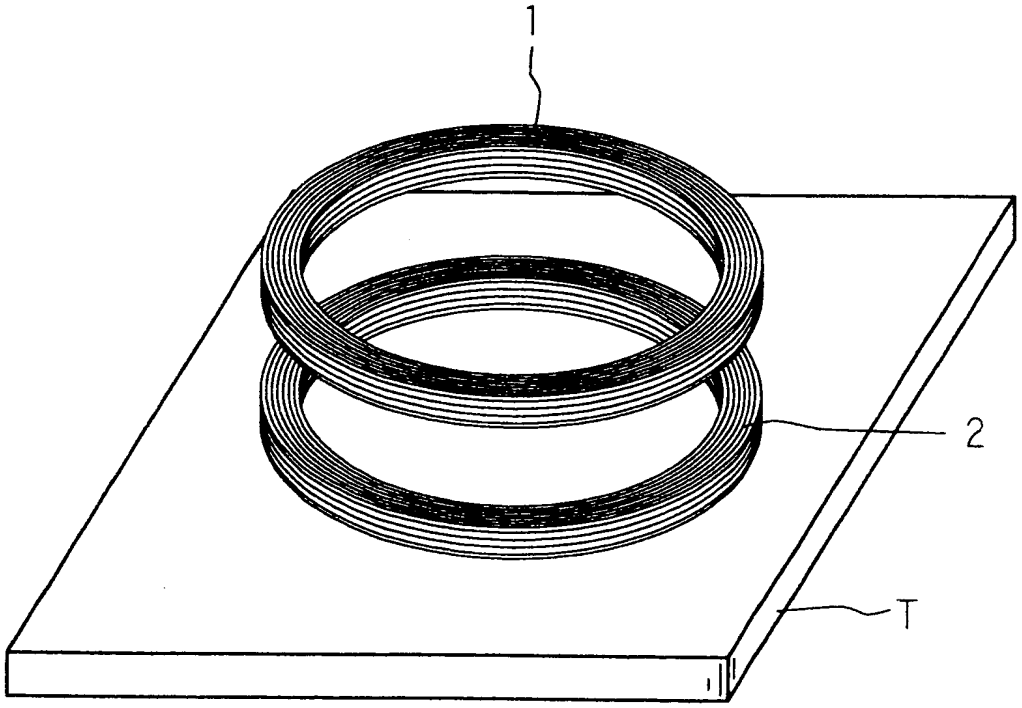


FIG. 2
PRIOR ART

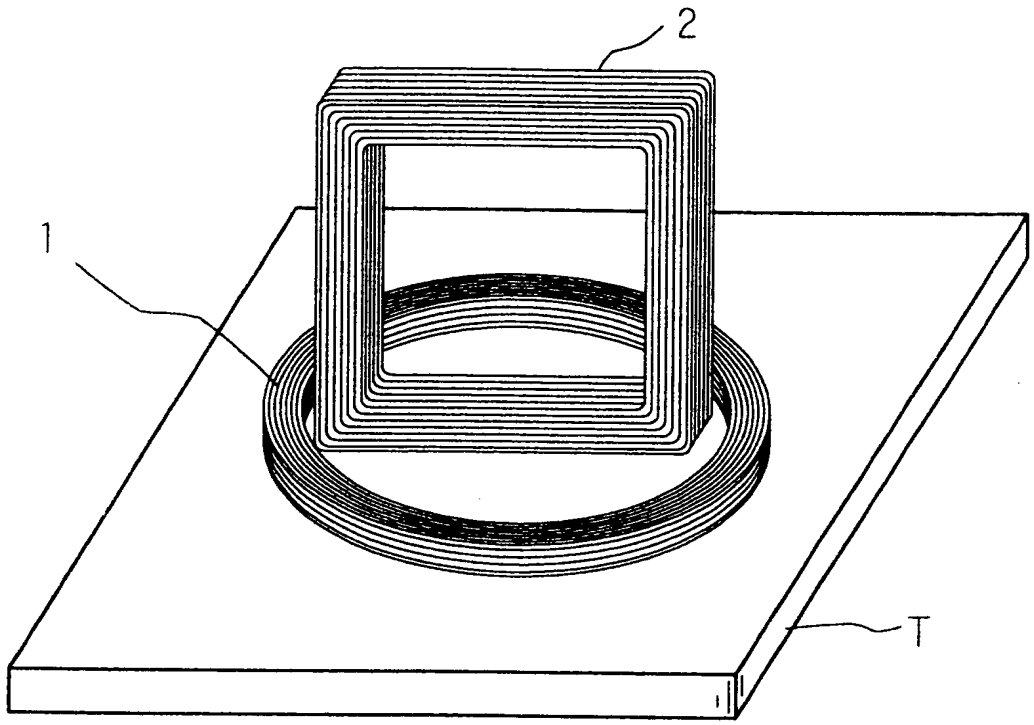


FIG. 3
PRIOR ART

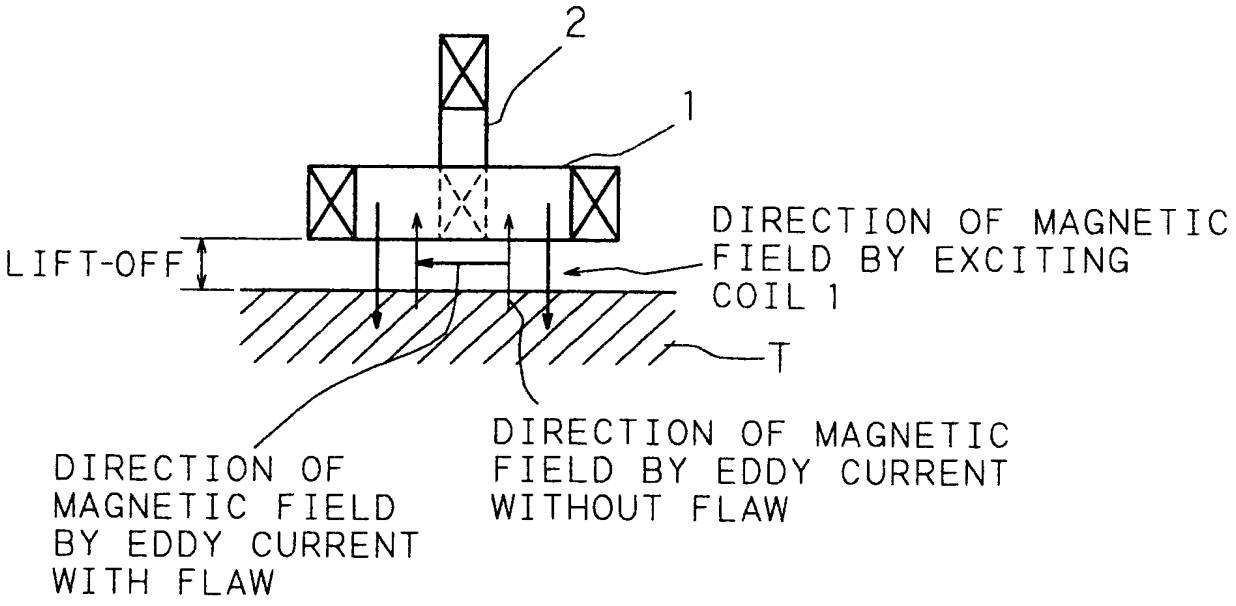

2
1
LIFT-OFF
DIRECTION OF MAGNETIC FIELD BY EXCITING COIL 1
T
DIRECTION OF MAGNETIC FIELD BY EDDY CURRENT WITHOUT FLAW
DIRECTION OF MAGNETIC FIELD BY EDDY CURRENT WITH FLAW

FIG. 4A
PRIOR ART

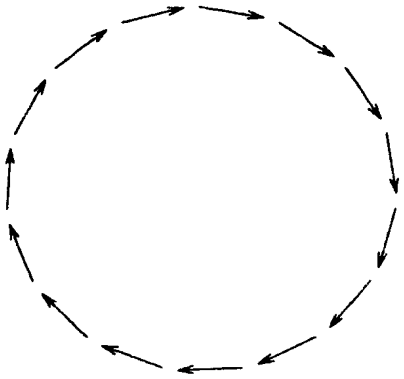


FIG. 4B
PRIOR ART

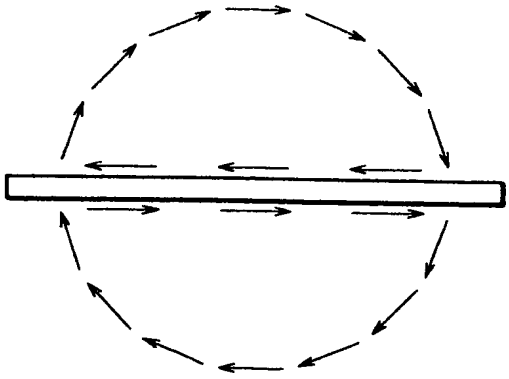


FIG. 5
PRIOR ART

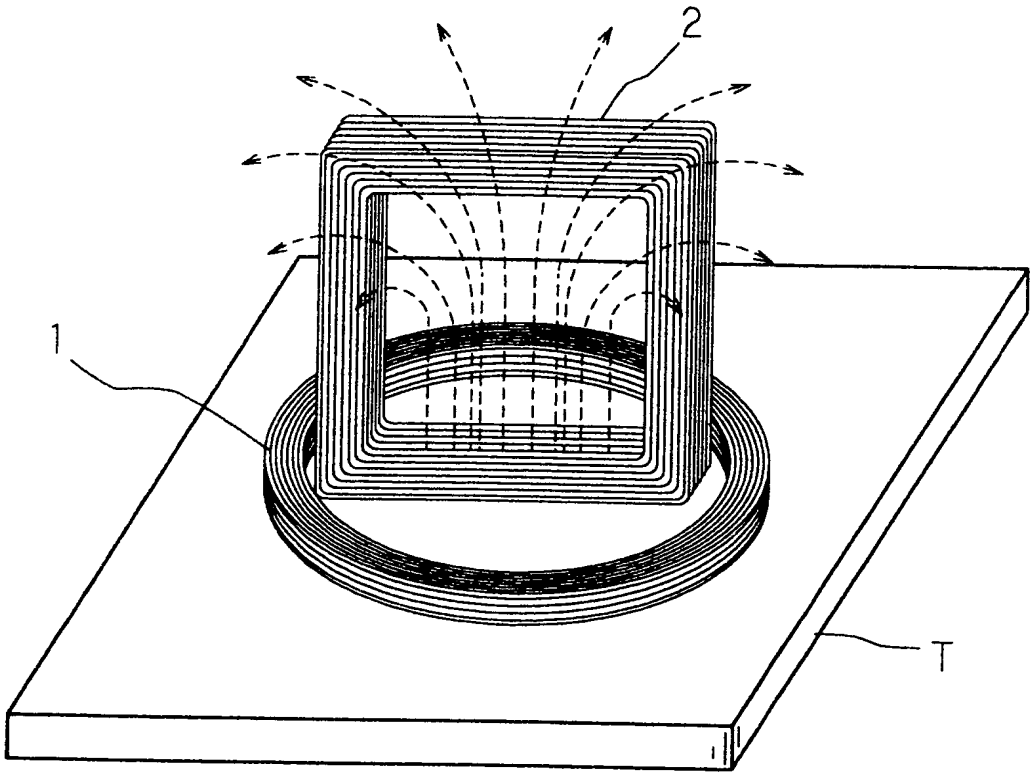


FIG. 6A

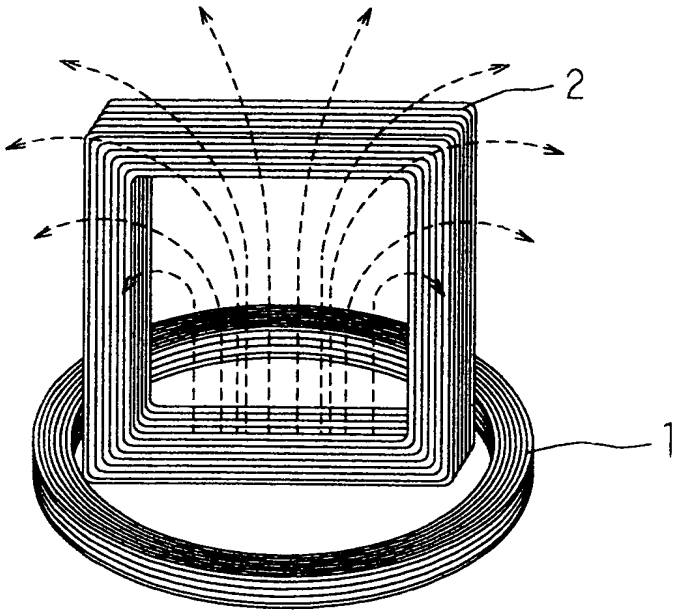
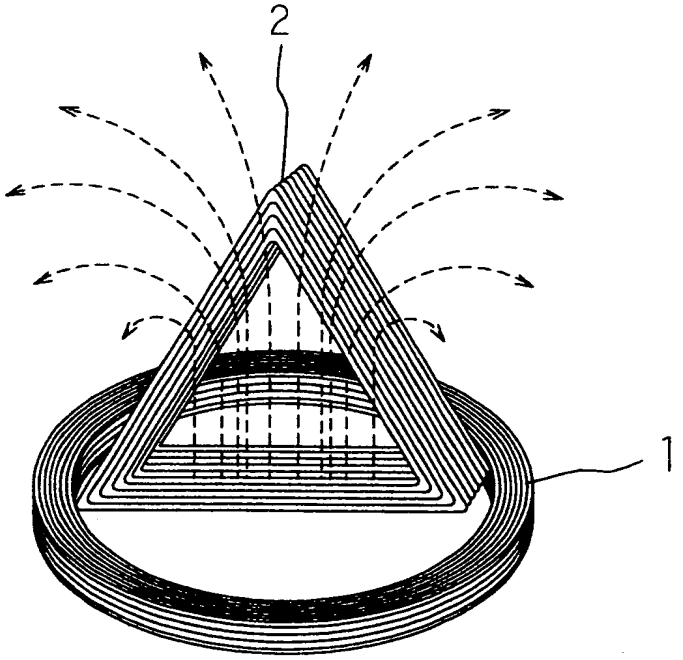


FIG. 6B



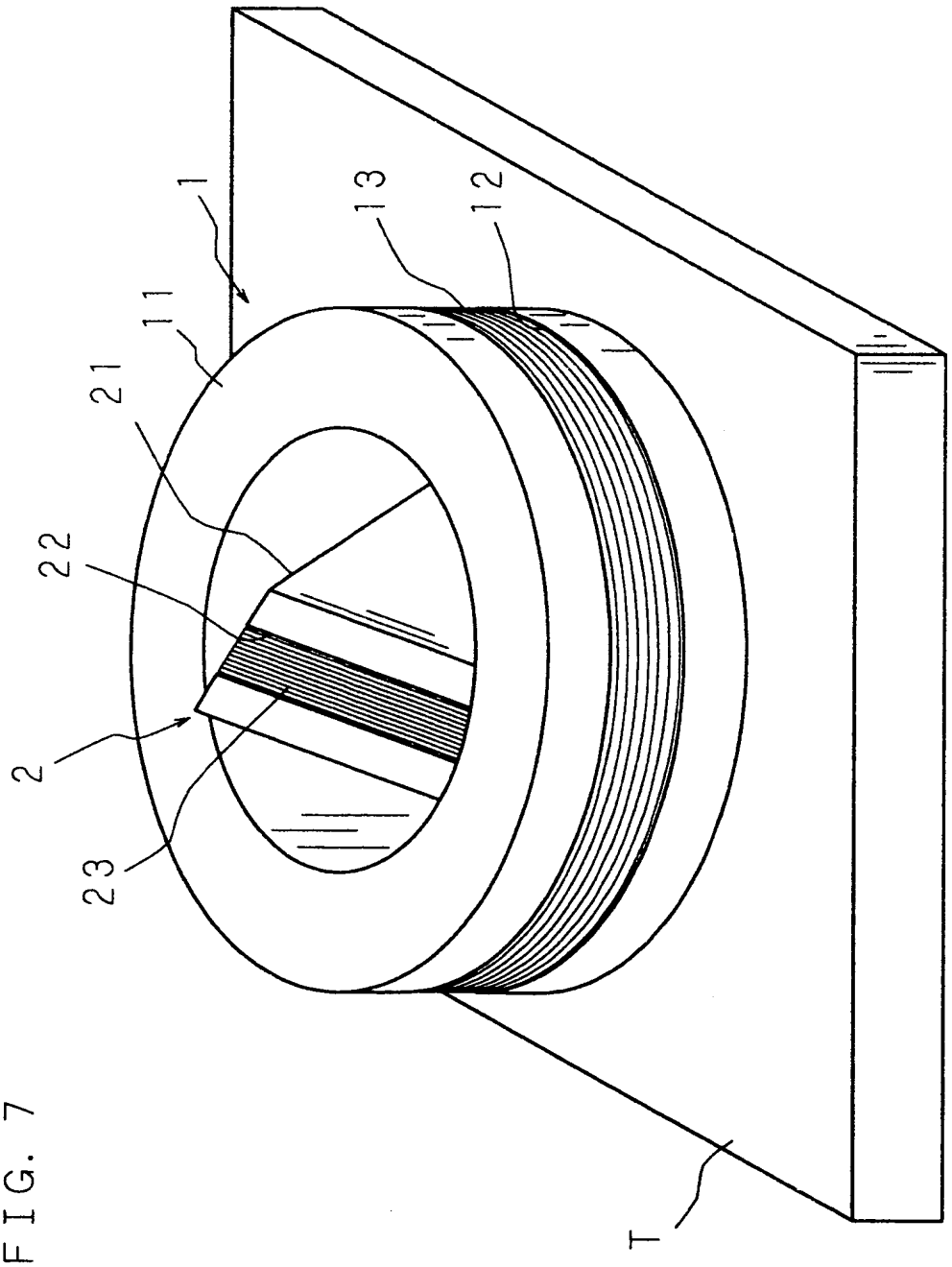


FIG. 7

FIG. 8

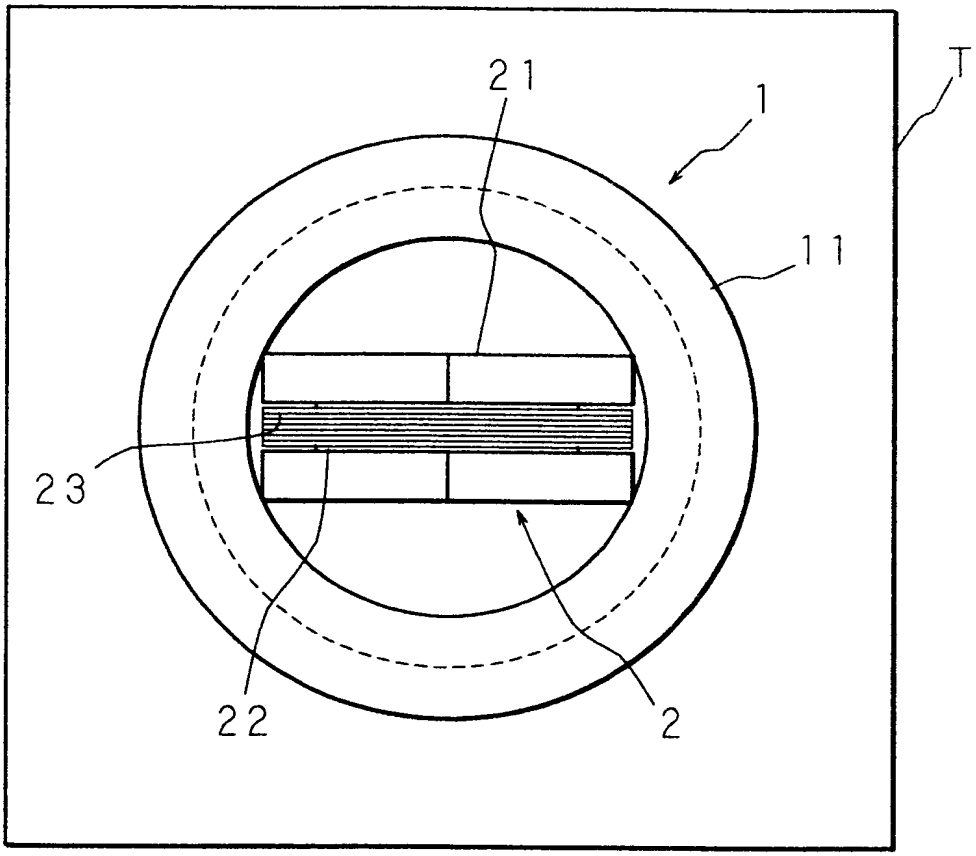


FIG. 9

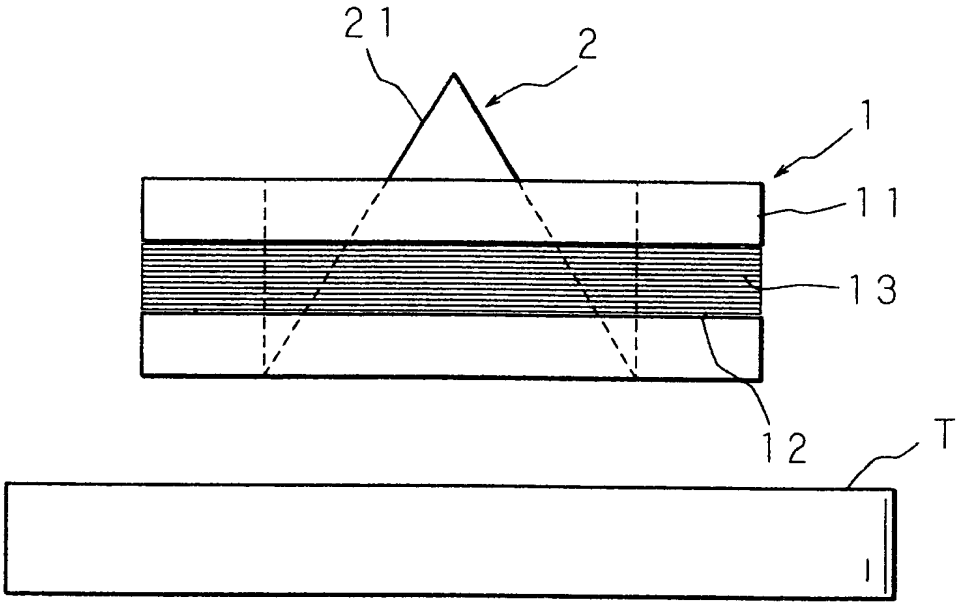


FIG. 10

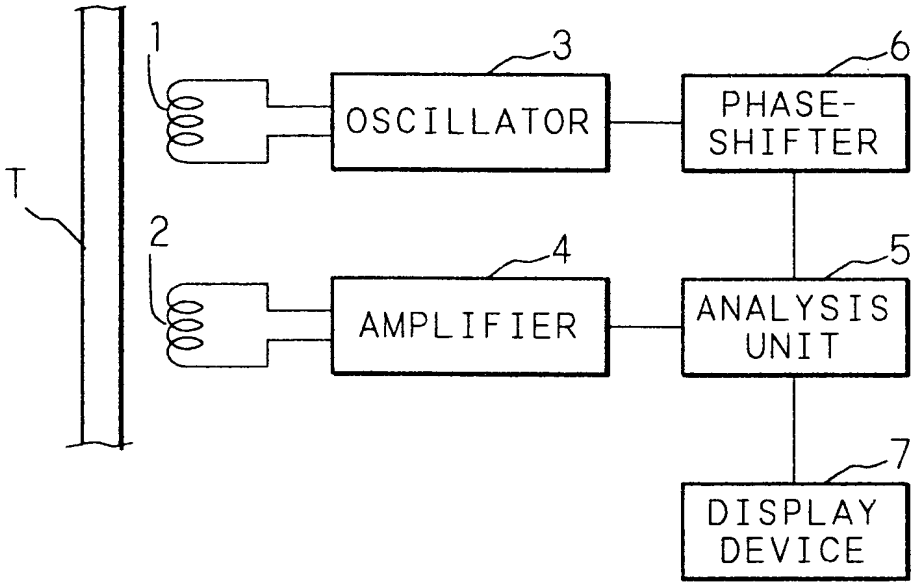

T
1
2
3
OSCILLATOR
4
AMPLIFIER
6
PHASE-
SHIFTER
5
ANALYSIS
UNIT
7
DISPLAY
DEVICE

FIG. 11

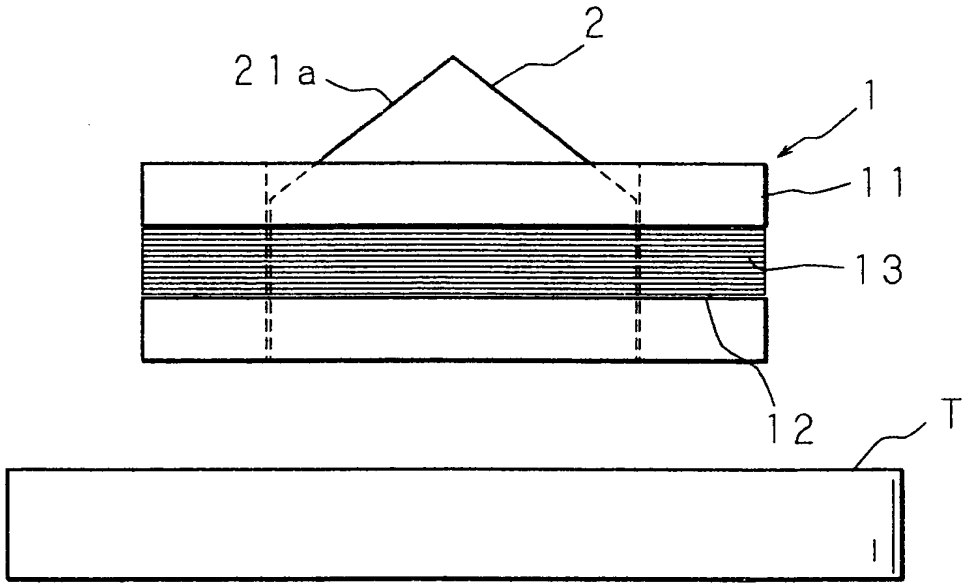
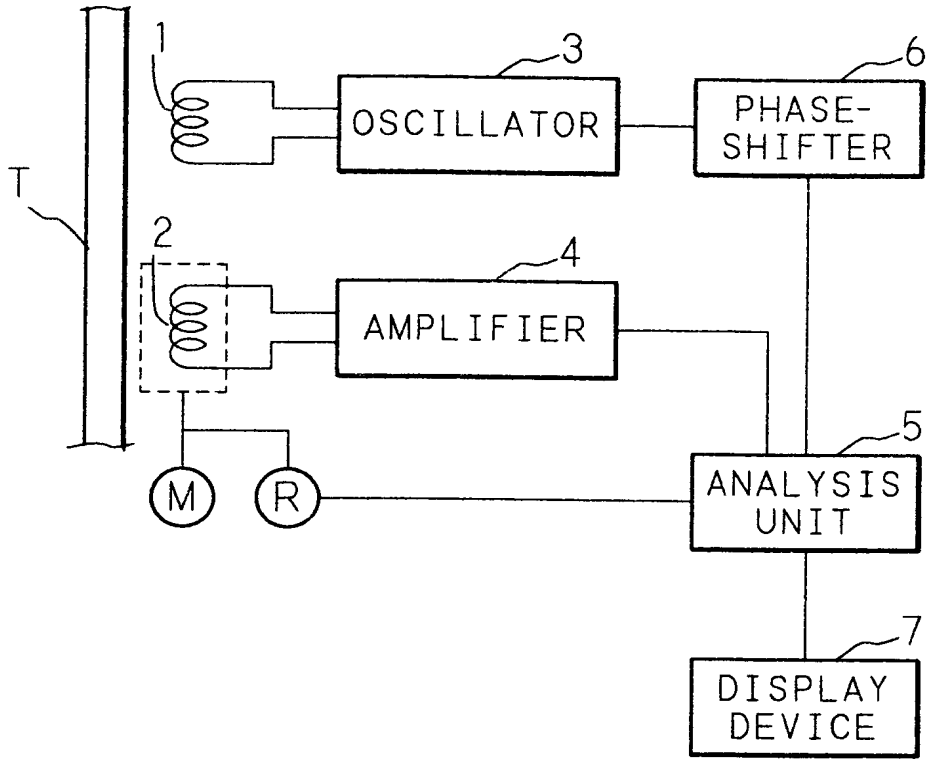


FIG. 12


1
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OSCILLATOR
PHASE-
SHIFTER
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AMPLIFIER
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ANALYSIS
UNIT
7
DISPLAY
DEVICE

FIG. 13

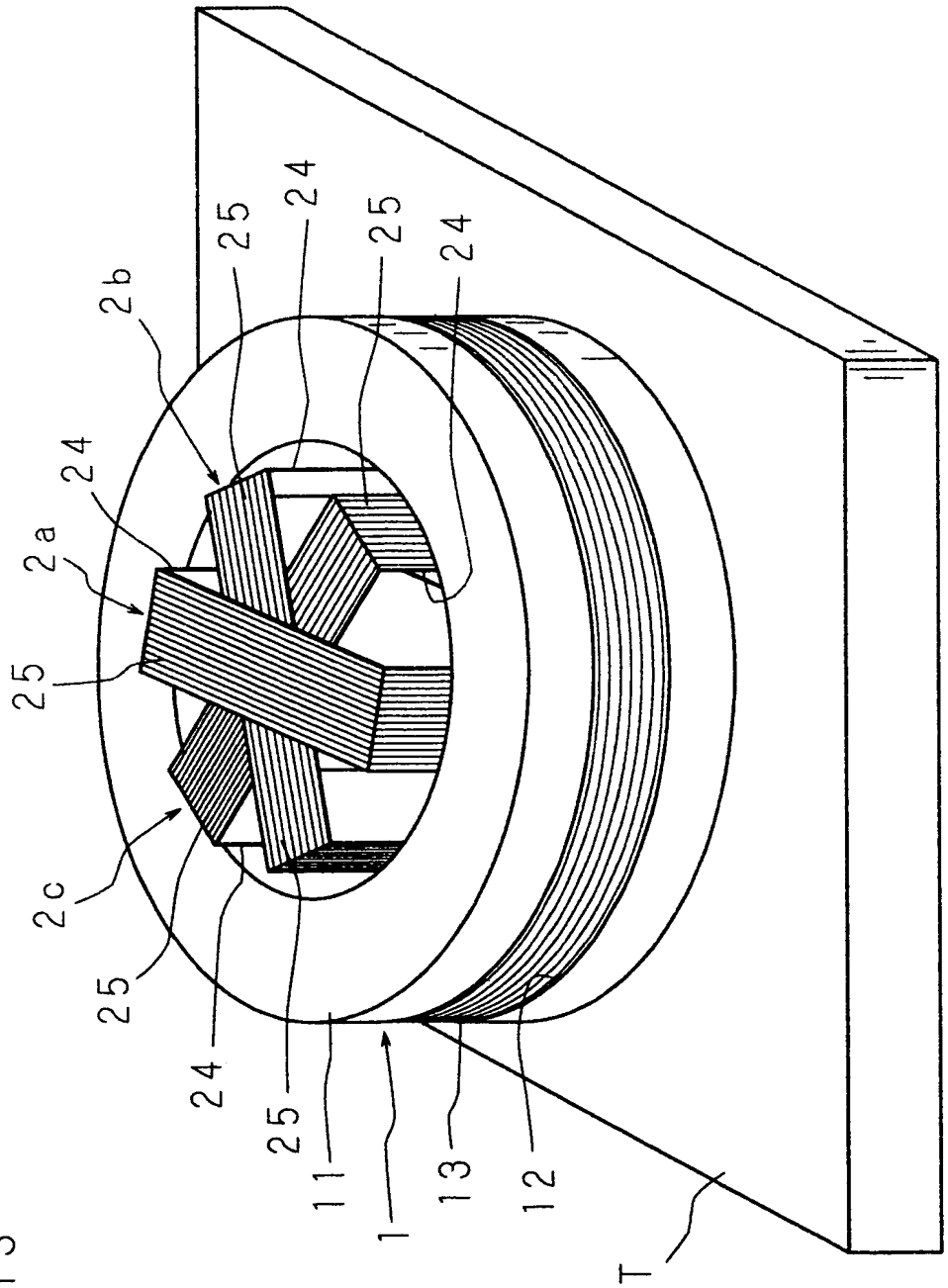

FIG. 14

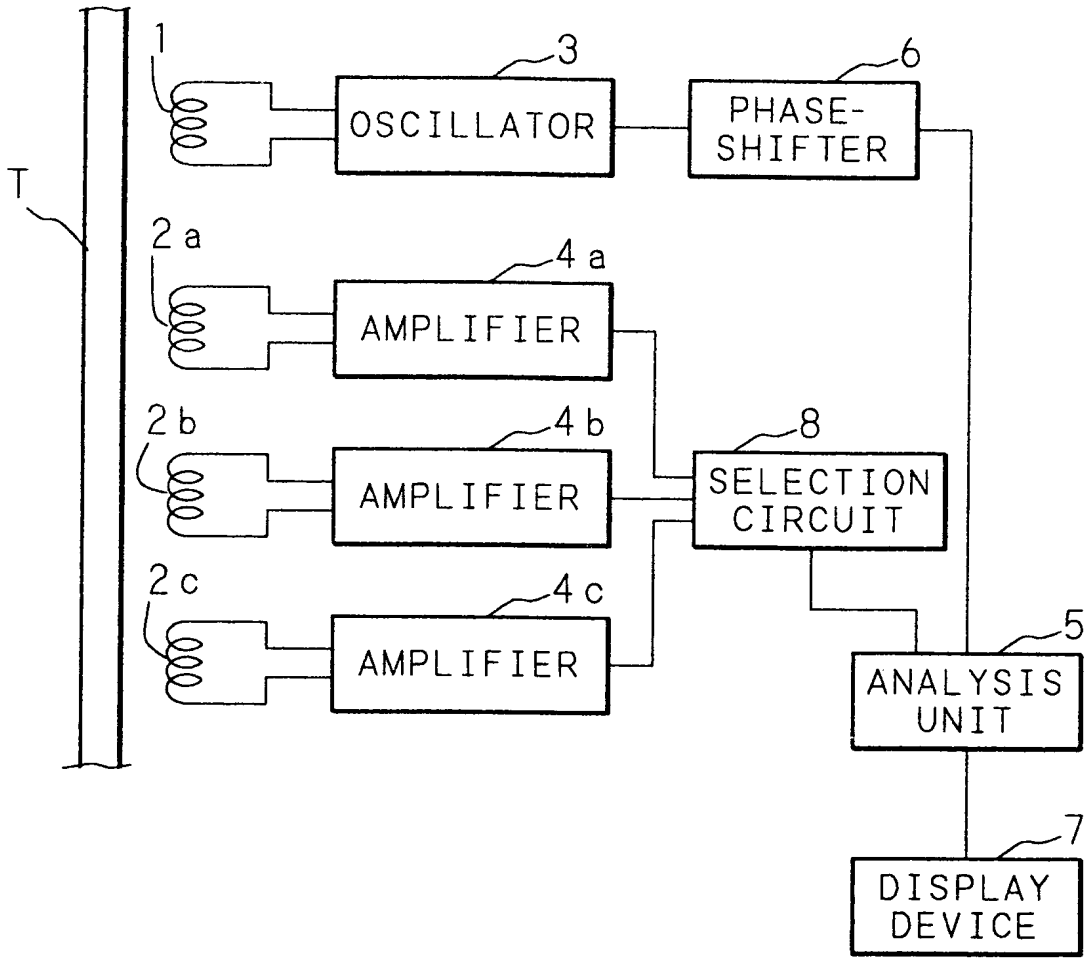
T
1
3
OSCILLATOR
6
PHASE-
SHIFTER
2a
4a
AMPLIFIER
2b
4b
AMPLIFIER
8
SELECTION
CIRCUIT
2c
4c
AMPLIFIER
5
ANALYSIS
UNIT
7
DISPLAY
DEVICE

FIG. 15

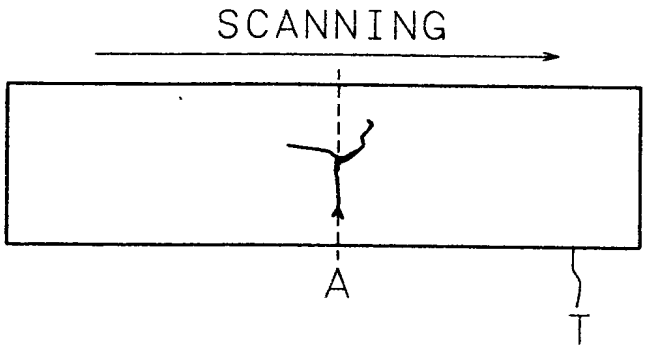

FIG. 16A

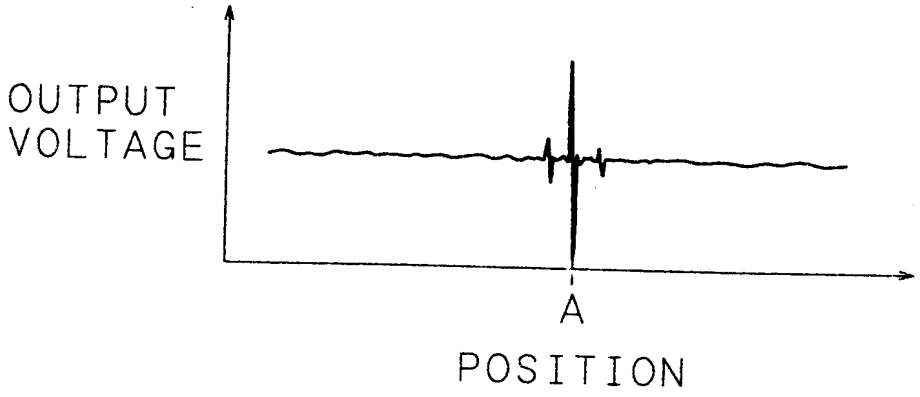
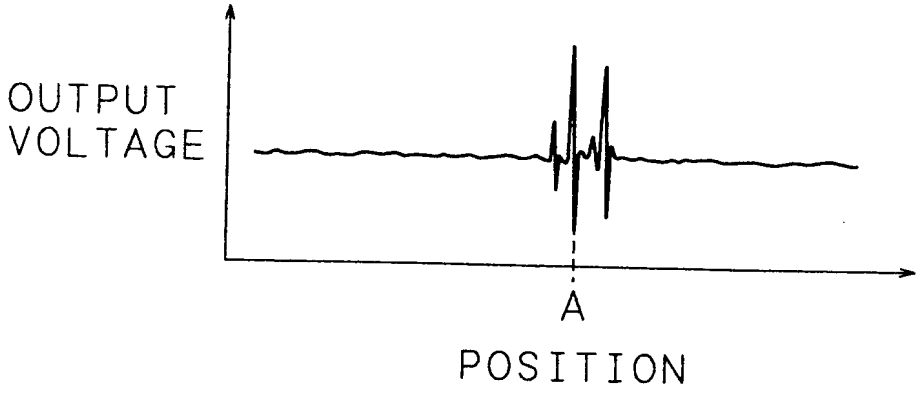
FIG. 16B